

Bespoke

Large Diameter

Fittings to Suit Any Pipe Specification



HeldenTM

PIPE CONNECTIONS, REPAIR & FLOW CONTROL PRODUCTS FOR THE UTILITIES INDUSTRY

CRANE

BUILDING SERVICES & UTILITIES



Robust, Reliable, Proven Solution for New Lay Pipes

Customer Specifications

The dedicated range is designed for use with new-lay pipes, and other specified situations where the pipe material and nominal sizes are known in advance. Customers can choose from Helden's standard range or have them custom made to suit a range of diameters and working pressures. This flexibility makes Helden the natural choice for most major pipeline projects.



Design Liaison

Helden has worked with clients, consultants and contractors all over the world, assisting in the selection of the product most appropriate to each individual project. Such assistance can include detailed design co-operation with specifying engineers, site visits to aid successful installation, specially designed products to suit project requirements, proof testing in our comprehensive in-house test facility and handling of the extensive documentation and inspection requirements often associated with large projects.

Designed for Flexibility

For pipeline design and installation engineers, the Helden large diameter couplings are extremely versatile. Each coupling sleeve is internally barrelled, allowing greater angular deflection. Ideal when accommodating misaligned pipes.

Product Capability

Large diameter couplings and flange adaptors are available in a wide range of sizes to suit virtually any customer requirement. Products can be supplied to suit all standard and non standard pipe diameters from DN350 and DN5000. Stepped couplings join pipes of different external diameters and flange adaptors can be supplied with flanges drilled to any national or international standard, or to customers' own specification with a pressure up to PN100.

Approvals

All products are designed and manufactured under quality management systems certified to ISO 9001 and conform to the American Water Works Association's specification

Pipe Materials



Large Diameter Couplings & Flange Adaptors

Product Design Benefits

Simple to Fit

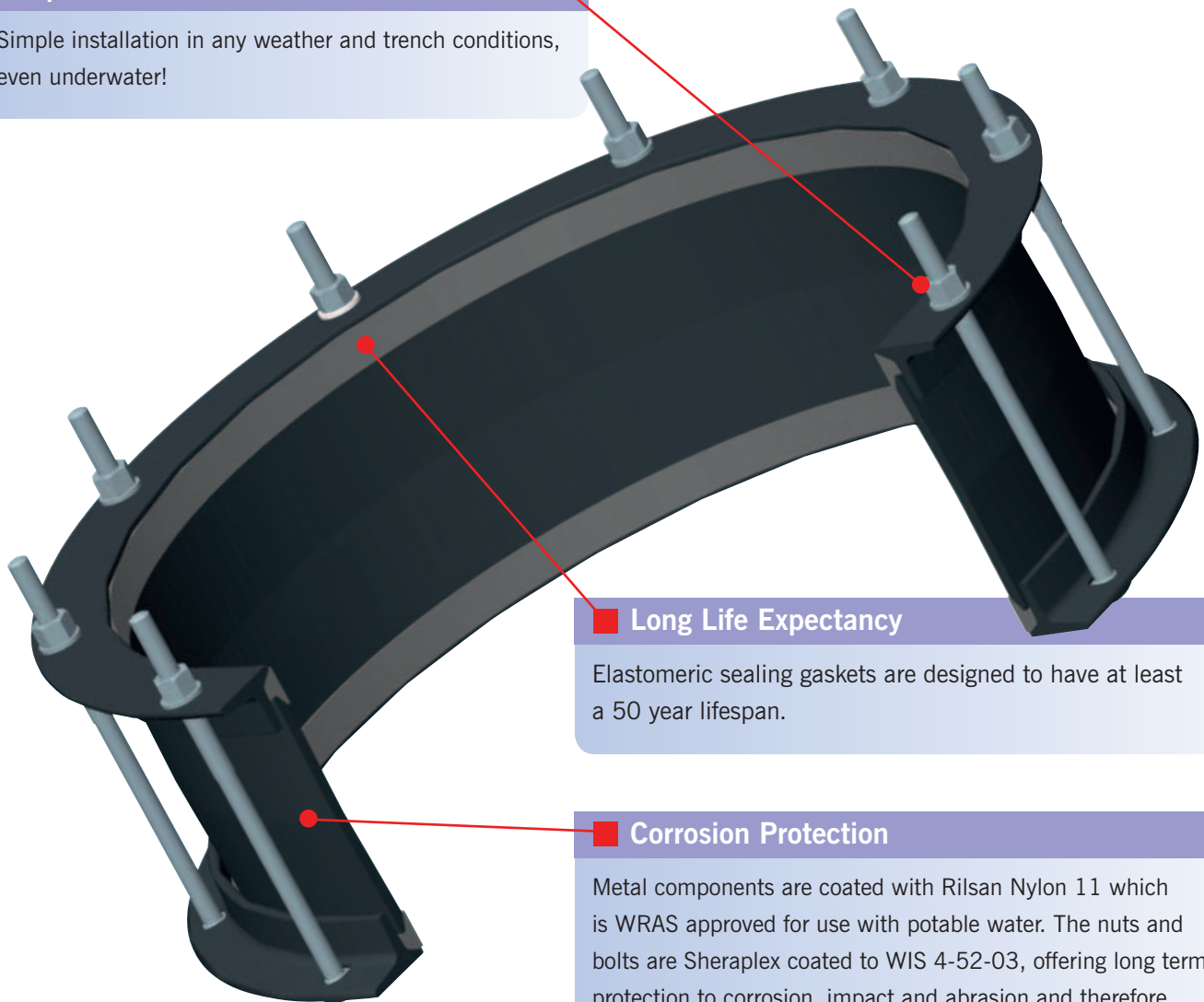
Simple installation in any weather and trench conditions, even underwater!

Long Life Expectancy

Elastomeric sealing gaskets are designed to have at least a 50 year lifespan.

Corrosion Protection

Metal components are coated with Rilsan Nylon 11 which is WRAS approved for use with potable water. The nuts and bolts are Sheraplex coated to WIS 4-52-03, offering long term protection to corrosion, impact and abrasion and therefore ensures continued reliable performance.



Mechanical Couplings & Flange Adaptors

Dedicated

Customer Benefits

- ▶ Couplings can absorb up to 10mm expansion and contraction, flange adaptors up to 5mm which allows for movement on bridge crossings, in chambers and pump stations. Often eliminates the need for special expansion joints.
- ▶ Couplings can offer up to 6° of angular deflection, flange adaptors 3° - to allow for the connection of misaligned pipes; take up ground settlement at structures; lay pipes to large radius bends.

- ▶ Flange adaptors are often used to permit dismantling of valves in flanged pipe systems.



- ▶ The standard finish for all Helden products is black Rilsan Nylon 11, which is highly resistant to impact, corrosion, abrasion and chemical attack. However, other coatings such as shopcoat, hot dip galvanising, zinc spray and epoxy coating can be supplied as required.

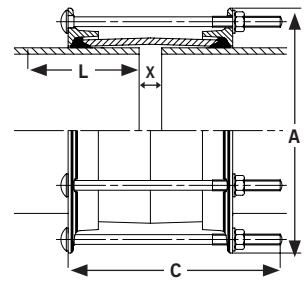
Large Diameter Couplings OD738 - 2032

Specifications

Helden manufacture couplings to any pipe OD and working pressure, with those tabled being the more popular products.

- Pressure** - Working Pressure = As Noted in table (Test Pressure = 1.5 x W.P.)
Notes - L02 / YF2 / A2E / A2H / XSXG = Section names for large diameter dedicated coupling products
OD's - If the product required is not in the table contact Helden who can provide relevant information.

Dedicated Couplings DO NOT resist end load - adequate restraint must be provided



Pipe OD (mm)	Pipe Material	Tolerance for Distance (mm) L		Coupling Section Type	No. Bolts	Bolt Dia x Length (mm)	Working Pressure (bar)	Dimensions (mm)		Min Setting Gap (mm) X	Max Setting Gap (mm) X	Gasket Mould No.	Weight (kg)
		+	-					Diameter A	Overall Length C				
738	DI	3.4	4.5	YF2	10	M16 x 265	28.2	849	276	38	76	J63LS	69.3
762	Steel	1.6	1.6	L02	12	M12 x 235	21.0	852	243	25	50	J64LS	40.4
813	Steel	1.6	1.6	L02	14	M12 x 235	19.8	903	243	25	50	J65LS	43.3
816	Coated Steel	1.6	1.6	L02	14	M12 x 235	19.7	906	243	25	50	J65LS	43.4
842	DI	1	4.5	L02	14	M12 x 235	18.9	931	243	25	50	J65LS	44.6
842	DI	1	4.5	YF2	12	M16 x 265	25.0	950	276	38	76	J65LS	78.7
842	DI	1	4.5	A2E	14	M16 x 265	29.1	965	276	38	76	J65LS	103.4
864	Steel	1.6	1.6	L02	14	M12 x 235	17.9	955	243	25	50	J66LS	45.7
914	Steel	1.6	1.6	L02	14	M12 x 235	16.0	1005	243	25	50	J67LS	48.2
916	Coated Steel	1.6	1.6	L02	14	M12 x 235	16.0	1007	243	25	50	J67LS	48.3
945	DI	1	5	YF2	12	M16 x 265	22.0	1054	276	38	76	J70LS	87.5
945	DI	1	5	A2E	14	M16 x 265	25.9	1069	276	38	76	J70LS	115.0
1016	Steel	1.6	1.6	YF2	14	M16 x 265	19.6	1125	276	38	76	J71LS	94.3
1019	Coated Steel	1.6	1.6	YF2	14	M16 x 265	19.4	1129	276	38	76	J71LS	94.6
1048	DI	1	5	YF2	14	M16 x 265	18.4	1156	276	38	76	J71LS	96.9
1048	DI	1	5	A2E	16	M16 x 265	26.8	1171	276	38	76	J71LS	127.1
1067	Steel	1.6	1.6	YF2	14	M16 x 265	17.7	1177	276	38	76	J72LS	98.6
1118	Steel	1.6	1.6	YF2	14	M16 x 265	16.2	1227	276	38	76	J73LS	102.9
1152	DI	1	6	A2E	16	M16 x 265	24.4	1275	276	38	76	J121M	138.7
1219	Steel	1.6	1.6	A2E	16	M16 x 265	23.0	1343	276	38	76	J121M	146.3
1222	Coated Steel	1.6	1.6	A2E	16	M16 x 265	23.0	1347	276	38	76	J121M	146.6
1255	DI	1	6	A2E	18	M16 x 265	25.2	1378	276	38	76	J122M	151.0
1422	Steel	1.6	3	A2E	20	M16 x 265	24.5	1546	276	38	76	J125M	170.5
1462	DI	1	7	A2E	20	M16 x 265	23.8	1585	276	38	76	J125M	174.8
1620	Steel	3	3	A2E	24	M16 x 265	20.3	1745	276	38	76	J127M	192.4
1626	Coated Steel	3	3	A2E	24	M16 x 265	20.2	1751	276	38	76	J127M	194.2
1668	DI	1	7	A2E	24	M16 x 265	19.2	1791	276	38	76	J128M	199.4
1829	Steel	3	3	A2E	24	M16 x 265	16.0	1954	276	38	76	J130M	217.5
2032	Steel	3	3	XSXG	36	M16 x 400	22.1	2167	411	57	114	J186H	418.6

Materials & Relevant Standards

Centre Sleeve/End Rings

Steel to BS EN10025-2:2004 Grade S275JR

Bolts/Studs/Nuts/Washers

Bolts/Studs - Steel to BS EN ISO898-1:2009 Property Class 4.8

Nuts - Steel to BS4190:2001 Grade 4

Washers - Stainless Steel to BS1449:Part 2:1983 Grade 304S15

Coatings

Body, Flange & End Ring - Rilsan Nylon 11 to WIS 4-52-01 Part 1

Nuts and Bolts - Sheraplex coated to WIS 4-52-03

Gaskets: L02/L03/YF2/YF3

Rubber 80 IRHD Moulded Compound to BS EN681-1:1996 Type WA, WC, WG or BS EN682:2002, Type G (other materials available on request)

Gaskets: A2E/A2H/XSXG

Rubber 70 IRHD Moulded Compound to BS EN681-1:1996 Type WA, WC, WG or BS EN682:2002, Type G (other materials available on request)

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